Inventor Name: Vikram Pillai et al. Docket No.: SBACK-002XX M Ò d е **VPN** Server 1 m Gateway Server 2 S 26 Data Center 16 18 Server Systems 28 **VPN 24** Dial -up connection Internet 20 <u>22</u> <u>-</u> VPN 24 Browser 38 Browser 40 SSH 36 BIL <u>42</u> **Customer Network** <u>12</u> NOC Server 34 Local Management Station 14 Remote Information Center 32

Title: XML FILE SYSTEM

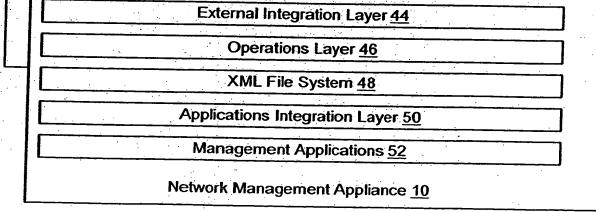


Fig. 1

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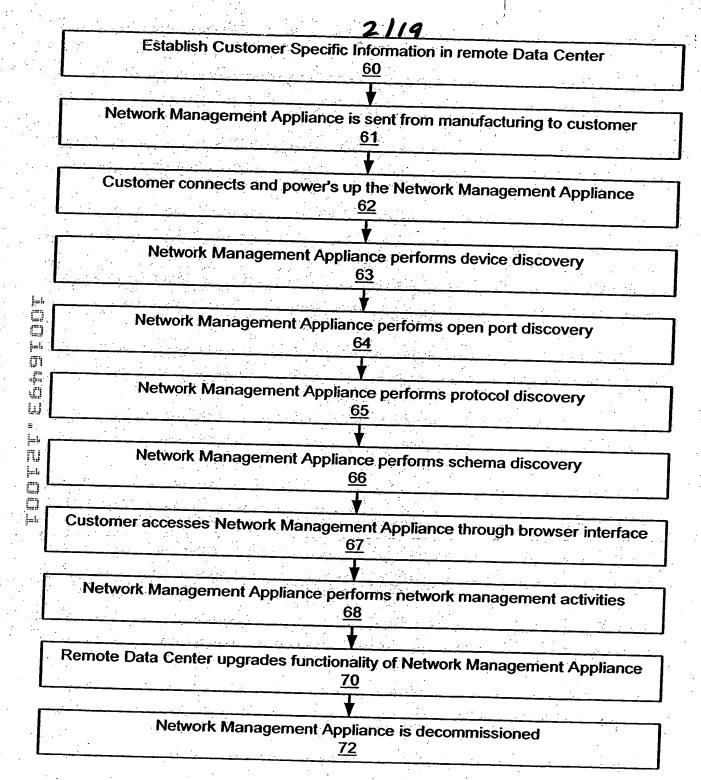
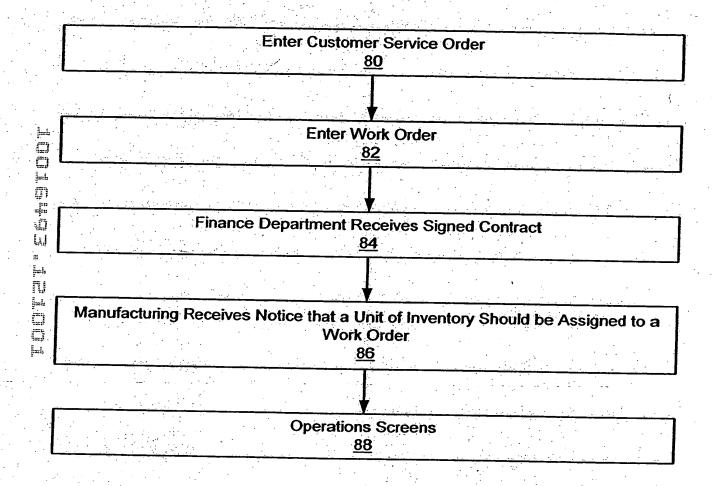


Fig. 2

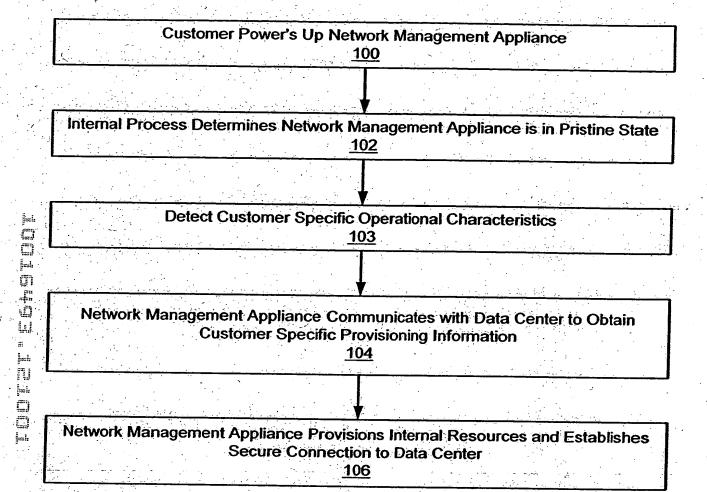
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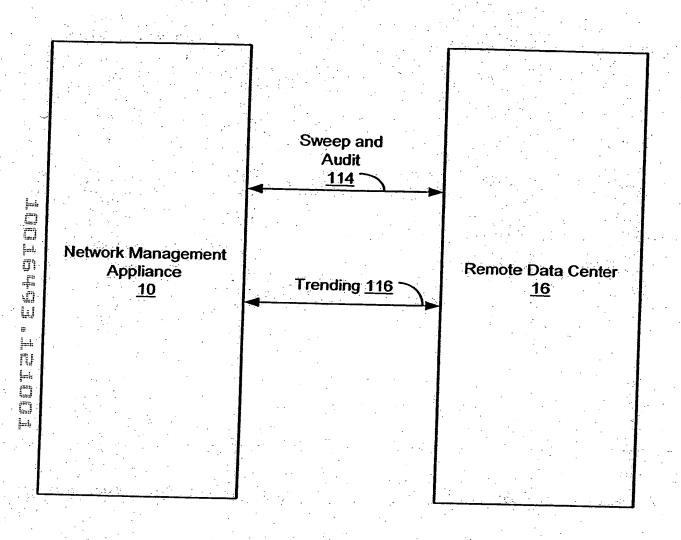






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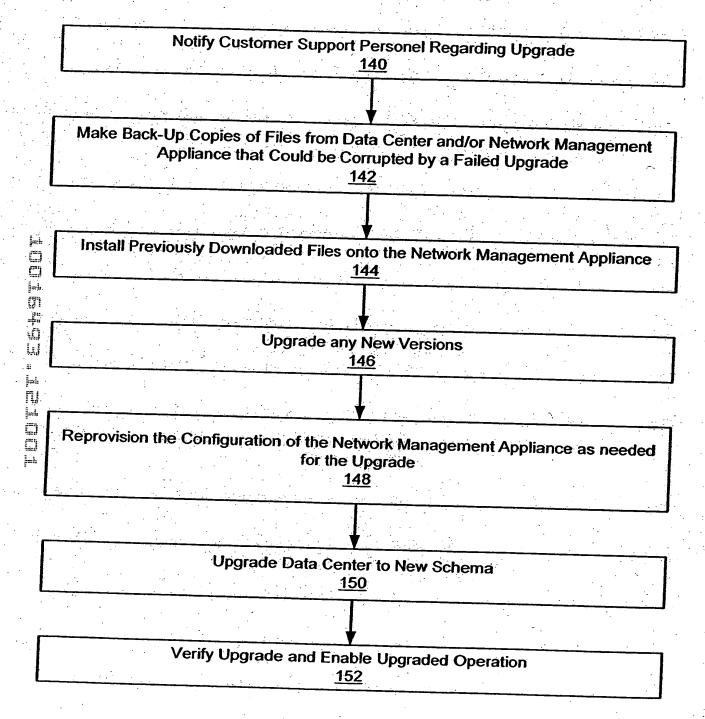
Verify that Network Management Appliance is Reachable from Data Center <u>120</u> Verify that Necessary Network Management Appliance Services are Available <u>122</u> Verify that Network Management Appliance is at Expected Revision Level 124 ļ-t Verify that Schema in Data Center for Upgrade is at Expected Revision Level <u>126</u> Verify that Configuration File in Network Management Appliance Matches Records in Data Center 128 Download Upgrade File to the Network Management Appliance if Needed <u>130</u>

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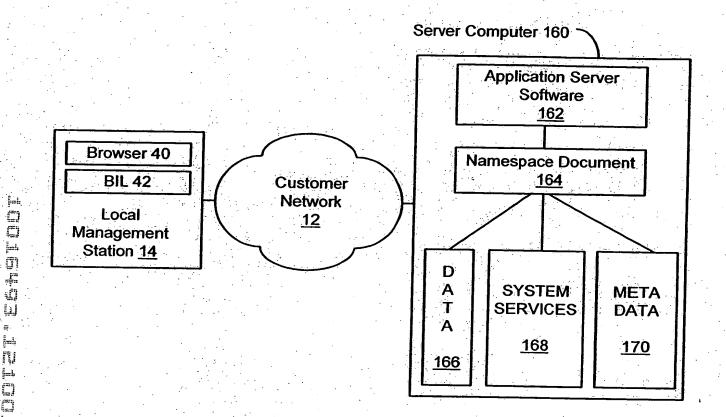


Fig. 8

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```
210
                                                                     <file type="dir" name="public">
    \( \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \
                                                                      </file>
                                                                                                                                                                                                                                                                   Fig.
                                                                                                                                                                                                                                                                                                           11
                                                               <file type="file" name="get-schema">
                                                                                                       <access-specification>
                                                                                                                                                   <access-control-entry>
                                                                                                                                                                                            <role>Admin</role>
                                                                                                                                                                                            <permissions>
                                                                                                                                                                                                                                                                                                <read/>
                                                                                                                                                                                                                                     <write/>
                                                                                                                                                                                                                                    <delete/>
                                                                                                                                                                                                                                    <add/>
                                                                                                                                                                                          </permissions>
                                                                                                                                            </access-control-entry>
                                                                                                   </access-specification>
                                                           </file>
```

Fig. 13

Fig. 14

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```
<root>
     <usr>
          <bin/>
     </usr>
    <app>
          <report/>
    </app>
    <cpe>
         <report/>
    </cpe>
    <system>
         <file type="dir" name="root">
              <file type="dir" name="usr">
                   <file type="file" name="bin"/>
              <file type="dir" name="app">
                   <file type="file" name="report"/>
              </file>
              <file type="dir" name="cpe">
                   <file type="dir" name="report"/>
                        <access-specification>
                              <access-control-entry>
                                   <role>Admin</role>
                                   <permissions>
                                       <read/>
                                       <write/>
                                       <delete/>
                                       < add/>
                                  </permissions>
                             </access-control-entry>
                        </access-specification>
                       <file type="file" name="get-schema">
                             <physical type="xlet">
                                  <language type="perl"</pre>
        class="/usr/local/silverback/bin/upgrade/get-
                                                schema.pl"/>
                            </physical>
                       </file>
                       <file type="file" name=
                                 "performance.xml">
                            <physical type="xml">
                 <file>/usr/local/system/screens/
                                      performance.xml</file>
                            /physical>
                       </file>
                 </file>
            <file>
```

Fig. 15(a)

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```
<access-specification>
                         <access-control-entry>
<role>Admin</role>
                              <permissions>
                                   <read/>
                                   <write/>
                                   <delete/>
                                   <add/>
                              </permissions>
                        </access-control-entry>
                  </access-specification>
T.
             </file>
₽.
        </system>
   </root>
```

Fig. 15(b)

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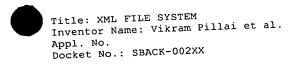
Fig. 17

```
add
              <request>
                    <name>get-schema</name>
                    <parent>/usr/local<parent>
  280
                    <type>file</type>
                    <physical type="xml">
                       < <language type="perl"</pre>
                         class="/usr/local/silverback/bin/upgrade/
get-schema.pl"/>
                    <physical>
              </request>
                                 Fig. 18
         add
ħ.
              <request>
<name>test</name>
                    <parent>/usr/local<parent>
                    <type>dir</type>
                    <access-specification>
                         <access-control-entry>
                              <role>Admin</role>
   290
            292
                              <permissions>
                   294
                                       <read/>
                                       <write/>
                                       <delete/>
                                       <add/>
                              </permissions>
                         </access-control-entry>
```

Fig. 19

</access-specification>

</request>



```
<p
```

Fig. 20

```
cp
```

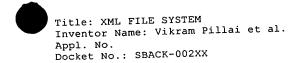
Fig. 21

```
mv

<p
```

Fig. 22

Fig. 23



<code></code>

<message></message>

<status>

</status>

</reply>

<reply>

Fig. 26

```
dir
```

```
<reply>
               <directory>
                    <get-schema>
                          <type>xlet</type>
                          <physical type="xlet">
واستأ
                               <language type="perl"</pre>
ħj
          class="/usr/local/silverback/bin/upgrade/get-schema.pl"/>
ļ=i.
                          </physical>
</get-schema>
                     <performance>
                          <physical type="xml">
               <file>/usr/local/system/screens/performance.xml
               </file>
                          </physical>
                     </performance>
                     <report>
                          <type>dir</type>
                     </report>
               </directory>
               <status>
                     <code></code>
                     <message></message>
               </status>
          </reply>
```

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exec

<request>

'n

Fig. 29

<reply> <!-results <status> <code></code> <message></message> </status> </reply>